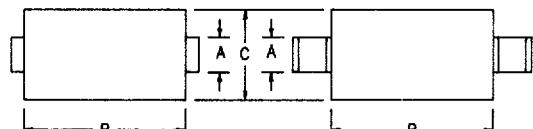


Ultra Fast Recovery Rectifiers

UFS305, 310, 315, 320

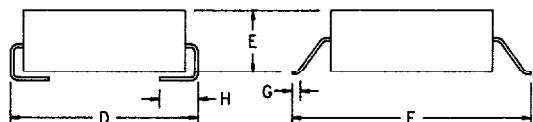


DO214AB

DO215AB

	Dim. Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	.117	.123	2.21	2.97	
B	.260	.280	4.57	6.60	
C	.220	.245	3.94	5.58	
D	.307	.322	5.59	7.80	
E	.075	.095	1.90	2.41	
F	.380	.400	6.86	7.37	
G	.025	.040	.381	.762	
H	.030	.060	.760	1.52	

D



Microsemi
Catalog Number

Working Peak
Reverse Voltage

Repetitive Peak
Reverse Voltage

- *UFS305
- *UFS310
- *UFS315
- *UFS320

- 50V
- 100V
- 150V
- 200V

*Add Suffix J For J Lead or G For Gull Wing Lead Configuration

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 50 to 200 Volts
- 3 Amp Current Rating
- t_{RR} 30 ns Max.

Electrical Characteristics

Average forward current

I_{F(AV)} 3.0 Amps

Square wave

Maximum surge current

I_{FSM} 100 Amps

8.3ms, half sine, T_J = 175°C

Max peak forward voltage

V_{FM} .95 Volts

I_{FM} = 3.0A; T_J = 25°C*

Max reverse recovery time

t_{RR} 30 ns

1/2A, 1A, 1/4A, T_J = 25°C

Typical reverse recovery time

t_{RR} 18 ns

1/2A, 1A, 1/4A, T_J = 25°C

Max peak reverse current

I_{RM} 10 μA

V_{RRM}, T_J = 25°C

Typical junction capacitance

C_J 38 pF

V_R = 10V, T_J = 25°C

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range

T_{STG}

-40°C to 175°C

Operating junction temp range

T_J

-40°C to 175°C

Weight

.008 ounces (0.22 grams) typical

PH: 303-469-2161
FAX: 303-466-3775

Microsemi Corp.
Colorado

UFS305, 310, 315, 320

Figure 1
Typical Forward Characteristics

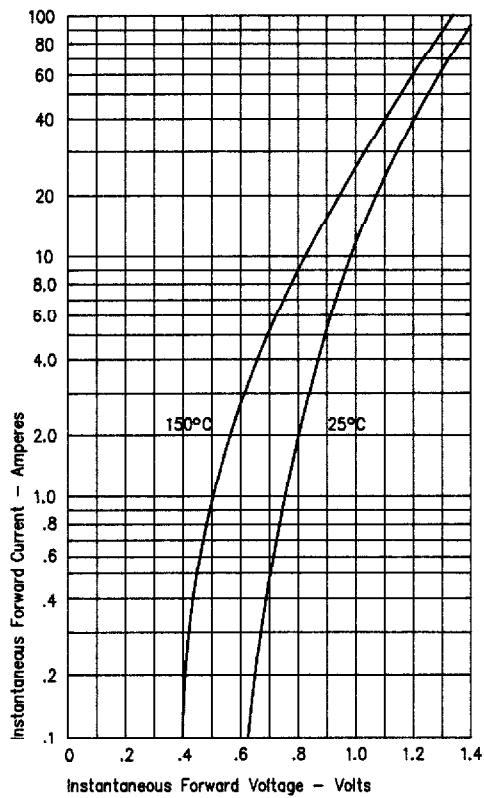


Figure 3
Typical Junction Capacitance

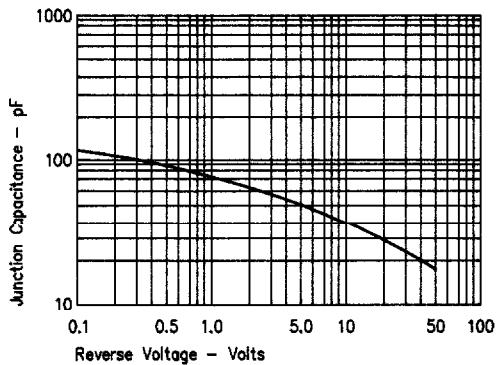


Figure 2
Typical Reverse Characteristics

